

2005-fig2.vsd

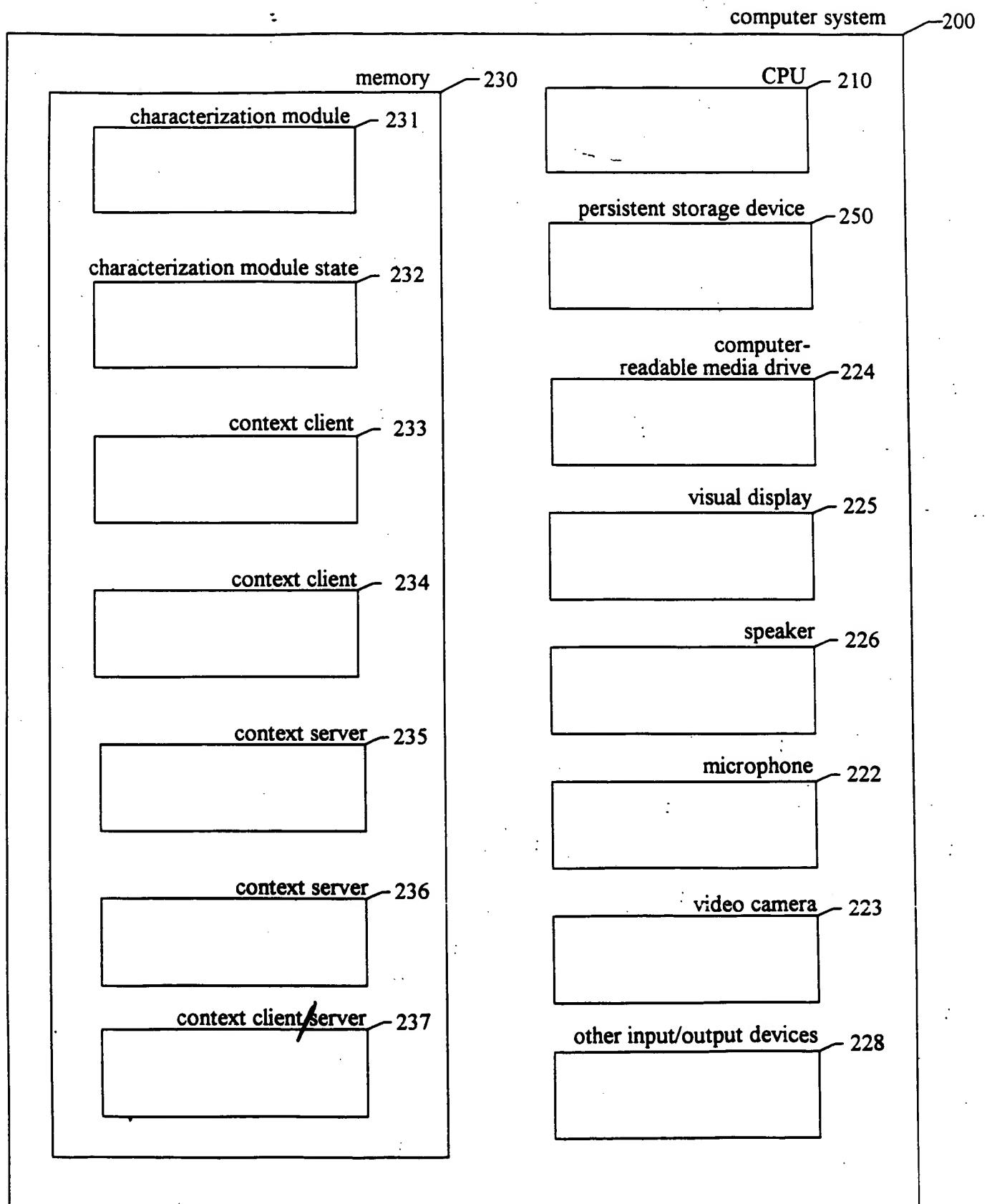
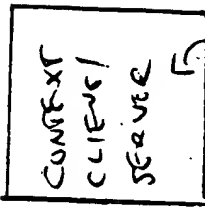
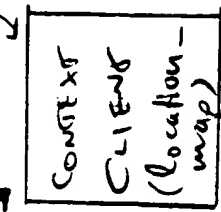
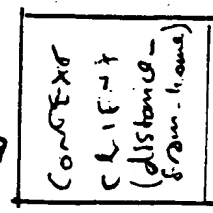
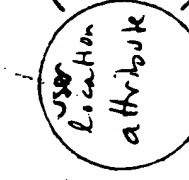
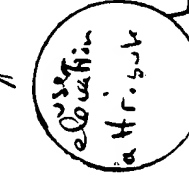
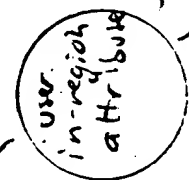
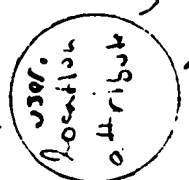
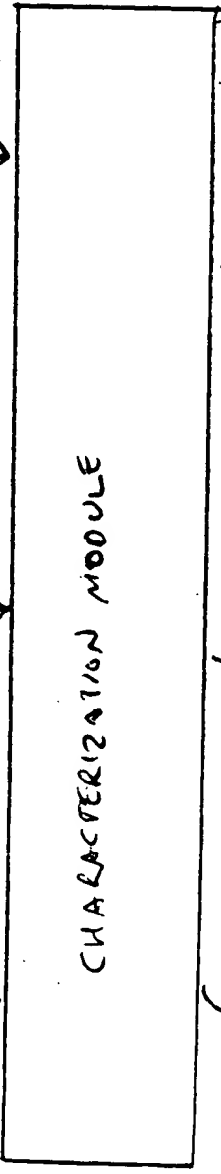
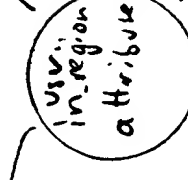
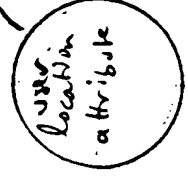
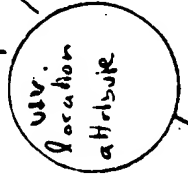
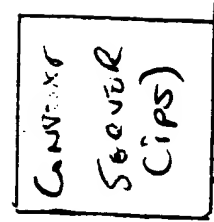
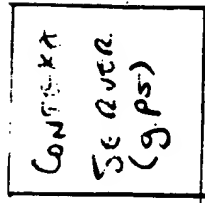


Fig. 2

310 320



300

330

FIG-3

03/15/00 8:28 PM

400

context server table

context server name	version	installation date	filename	request handler
gps	1	2/10/2000	gps.exe	(reference)
ips	1	2/21/2000	ips.exe	(reference)
location region analysis	1	2/10/2000	l r a.exe	(reference)

FIG 4

attribute instance table

attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
user.location	gps	47° 38.73' N, 122° 18.43' W	0° 09'	13:11:04.023 2/22/2000	degrees/minutes	2
user.location	ips	47° 38.745' N, 122° 18.424' W	0° 021'	13:11:01.118 2/22/2000	degrees/minutes	2
user.elevation	ips	22	.5	13:11:01.118 2/22/2000	meters	1
user.in_region	location_region_analysis	none	none	none	none	0

FIG 5

600

context client table

context client name	message handler
location map	(reference)
distance from home	(reference)
region analysis	(reference)

FIG 6

attribute instance table

attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
user.location	gps	47° 38.73' N, 122° 18.43' W	0° .09'	13:11:04.023 2/22/2000	degrees/minutes	2
user.location	ips	47° 38.745' N, 122° 18.424' W	0° .021'	13:11:01.118 2/22/2000	degrees/minutes	2
user.elevation	ips	22	.5	13:11:01.118 2/22/2000	meters	1
user.in_region	location_region_analysis	none	none	none	none	1

FIG 7

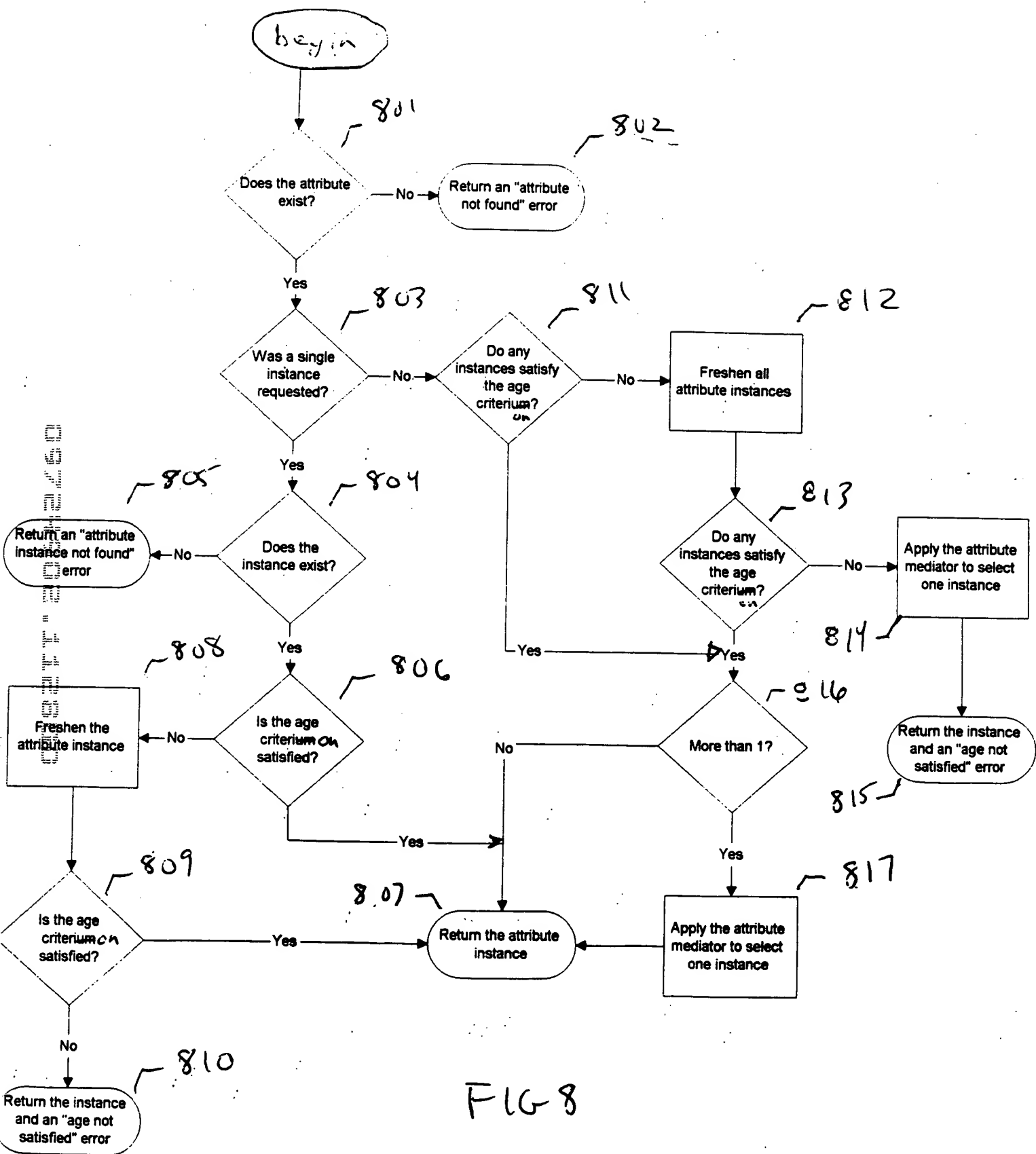


FIG 8

attribute instance table

attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
user.location	gps	47° 38.73' N, 122° 18.43' W	0° 09'	13:11:04.023 2/22/2000	degrees/minutes	2
user.location	ips	47° 38.745' N, 122° 18.424' W	0° 021'	13:11:01.118 2/22/2000	degrees/minutes	2
user.elevation	ips	22.25	.5	13:11:06.565 2/22/2000	meters	1
user.in_region	region analysis	none	none	none	none	1

FIG 9

condition table

condition name	context client name	first logical parameter	second logical parameter	comparison value	logical operator
in_region_true	region analysis	user.in_region	none	TRUE	=

FIG 10

101

8111

104

81218

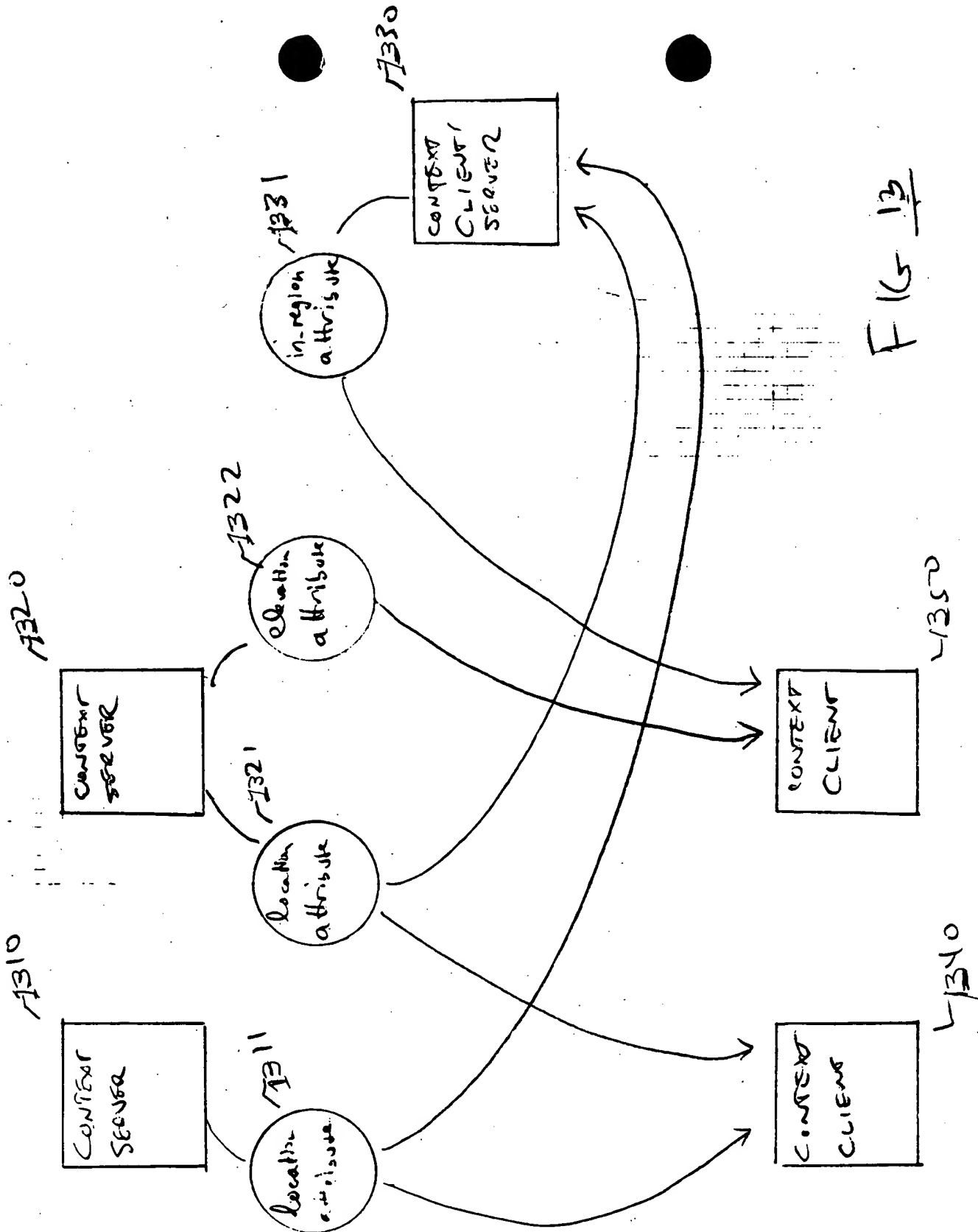


FIG 13

1. **Goal:** To ensure that all students have access to the necessary resources and support to succeed in their studies.
 2. **Objectives:**
 - To identify the specific needs of each student and provide targeted support.
 - To establish a system of regular communication and collaboration between students and support staff.
 - To monitor and evaluate the effectiveness of the support system and make adjustments as needed.
 3. **Methods:**
 - Conduct individual meetings with students to assess their needs and provide guidance.
 - Implement a peer support system where students can help each other with their studies.
 - Provide access to online resources and tutoring services.
 - Offer workshops and seminars on study skills and time management.
 4. **Results:**
 - Improved student attendance and participation in class.
 - Increased student confidence and self-efficacy.
 - Higher student achievement and graduation rates.
 - Enhanced student satisfaction and overall well-being.
 5. **Conclusion:**
 The implementation of a comprehensive support system is essential for ensuring that all students have the opportunity to succeed in their studies. By providing targeted support and resources, we can help students overcome their challenges and achieve their academic goals.

Person.<name or ID>. (same as User.)

VI.

Platform. (continued)

Environment.

Local.

Place.<place name>. (same as Environment.Local)

Mail.

Phone.

Sound recorder.

Fig. 15

1) User Setting

a) Mental Context

- i) Meaning
- ii) Cognition
 - (1) Divided User Attention
 - (2) Task Switching
 - (3) Background Awareness
- iii) Solitude
- iv) Privacy
 - (1) Desired Privacy
 - (2) Perceived Privacy
- v) Social Context
- vi) Affect

b) Physical Situation

- i) Body
 - (1) Biometrics
 - (2) Posture
 - (3) Motion
 - (4) Physical Encumberment
 - (a) Senses
 - (i) Eyes
 - (ii) Ears
 - (iii) Tactile
 - (iv) Hands
 - (v) Nose
 - (vi) Tongue
 - (b) Workload demands/effects
 - (c) Interaction with computer devices
 - (d) Interaction with people
 - (e) Physical Health
- ii) Environment
 - (1) Time/Space
 - (2) Objects
 - (3) Persons
 - (a) Audience/Privacy Availability
 - (i) Scope of Disclosure
 - (ii) Hardware affinity for privacy
 - (iii) Privacy Indicator for User
 - (iv) Privacy Indicator for Public
 - (v) Watching Indicator
 - (vi) Being Observed Indicator
- (4) Ambient Interference
 - (a) Visual
 - (b) Audio
 - (c) Tactile

2) Computer

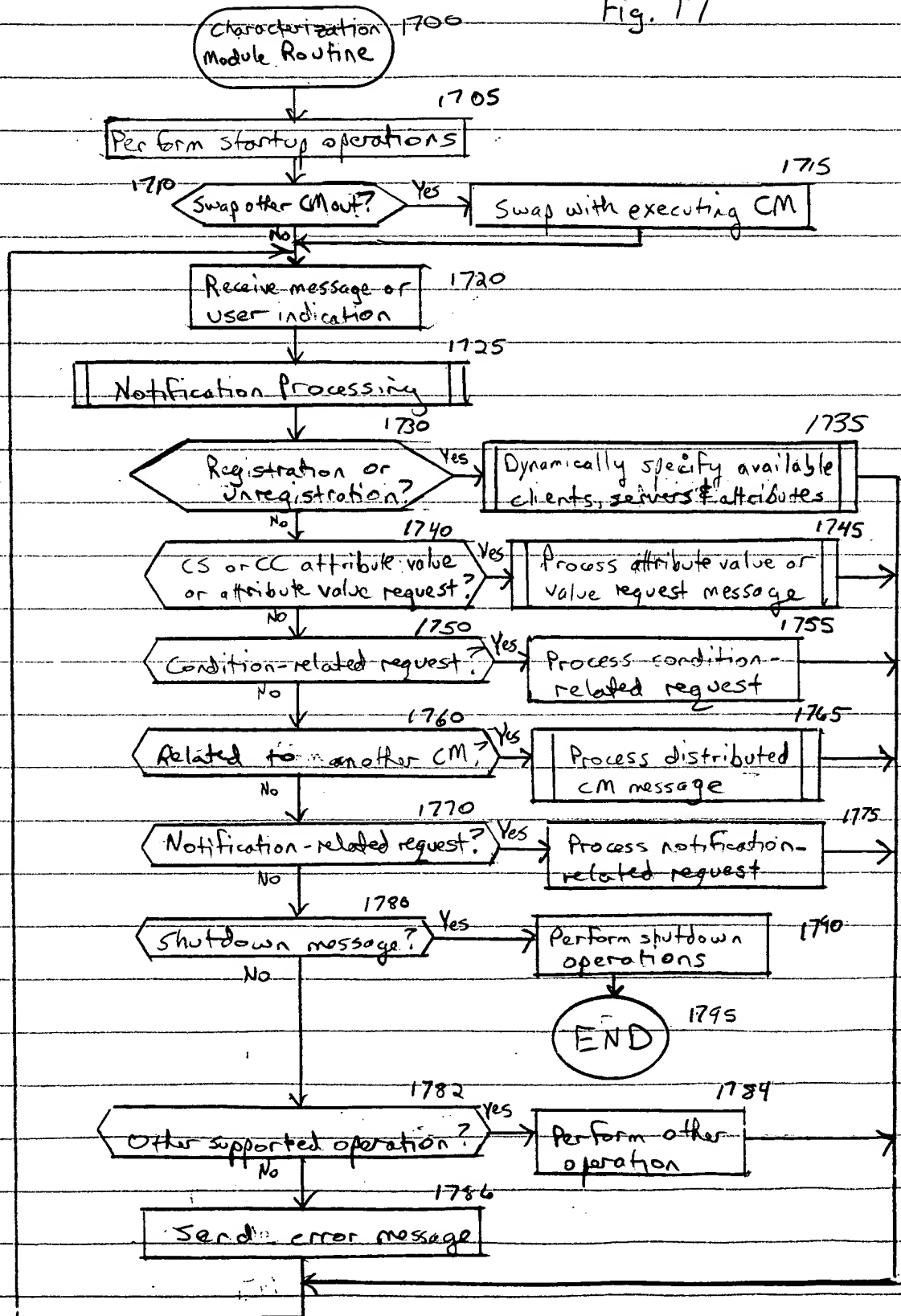
a) Power

b) Configuration

- i) User Input Systems
 - (1) Hand/Haptic
 - (a) Keyboard/Keystrokes
 - (2) Voice/Audio
 - (3) Eye Tracking
 - (4) Cursors
 - (a) Axis
 - (b) Resolution
 - (i) Selection
 - (ii) Invocation
 - (c) Accelerators
- ii) Output Systems
 - (1) Visual
 - (a) Resolution
 - (2) Audio
 - (a) Public/Private
 - (3) Haptic
- iii) External Resources
 - (1) I/O devices
 - (2) Connectivity
- c) Data
 - i) Quantity/State
 - ii) Urgency/Importance
 - (1) Use of Prominence
 - iii) Modality
 - iv) Sensitivity/Purpose
 - (1) Privacy Issues
 - (2) Use of Association
 - (3) Use of Safety
 - v) Source/Ownership
 - (1) Types
 - (a) User generated
 - (b) Other computers or people
 - (c) Sensor
 - (d) PC State
 - (2) Use of Association

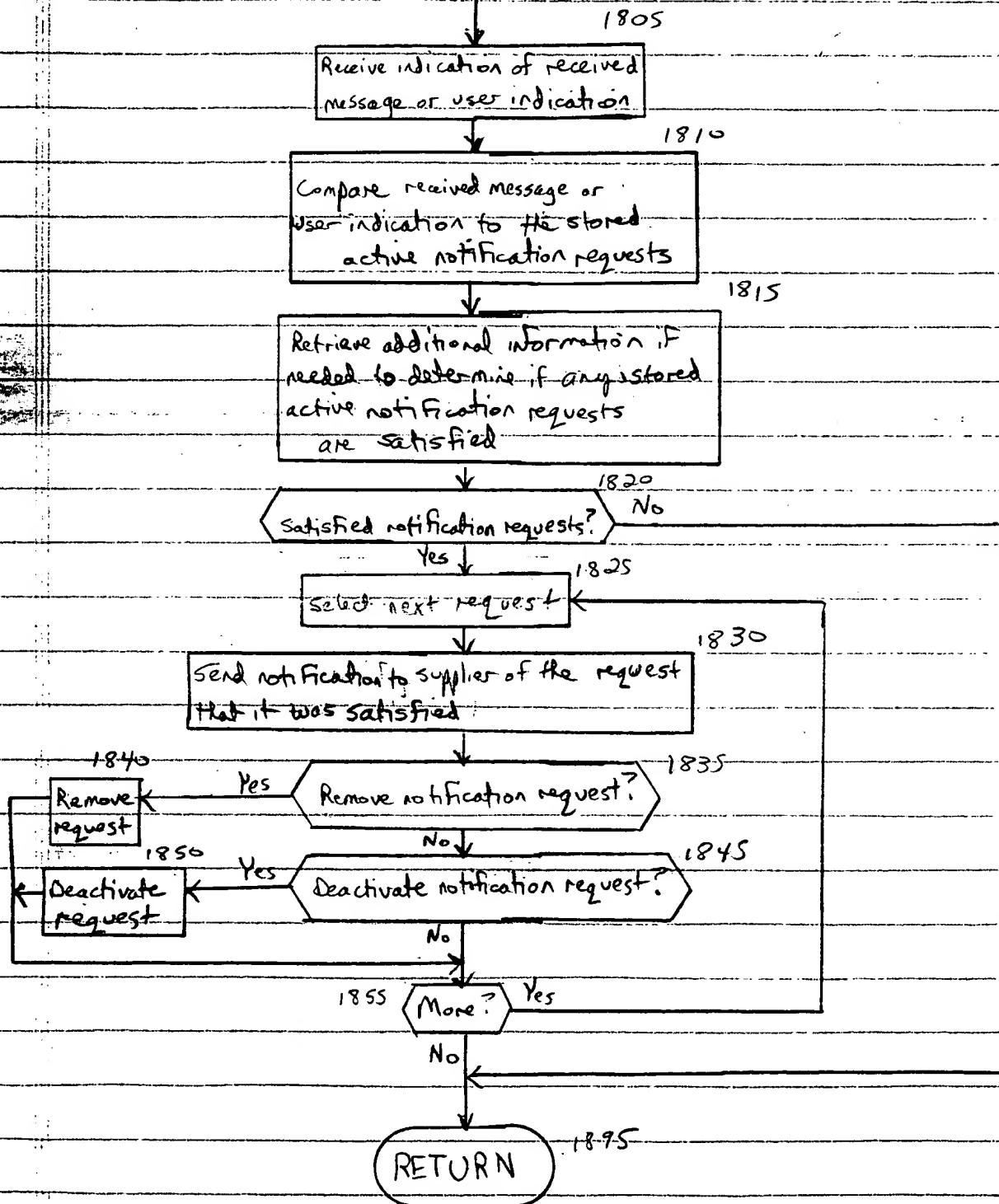
Fig. 16

Fig. 17



Notification Processing Subroutine 1725

Fig. 18



Dynamically Specify Available
Clients, Servers, & Attributes
Subroutine

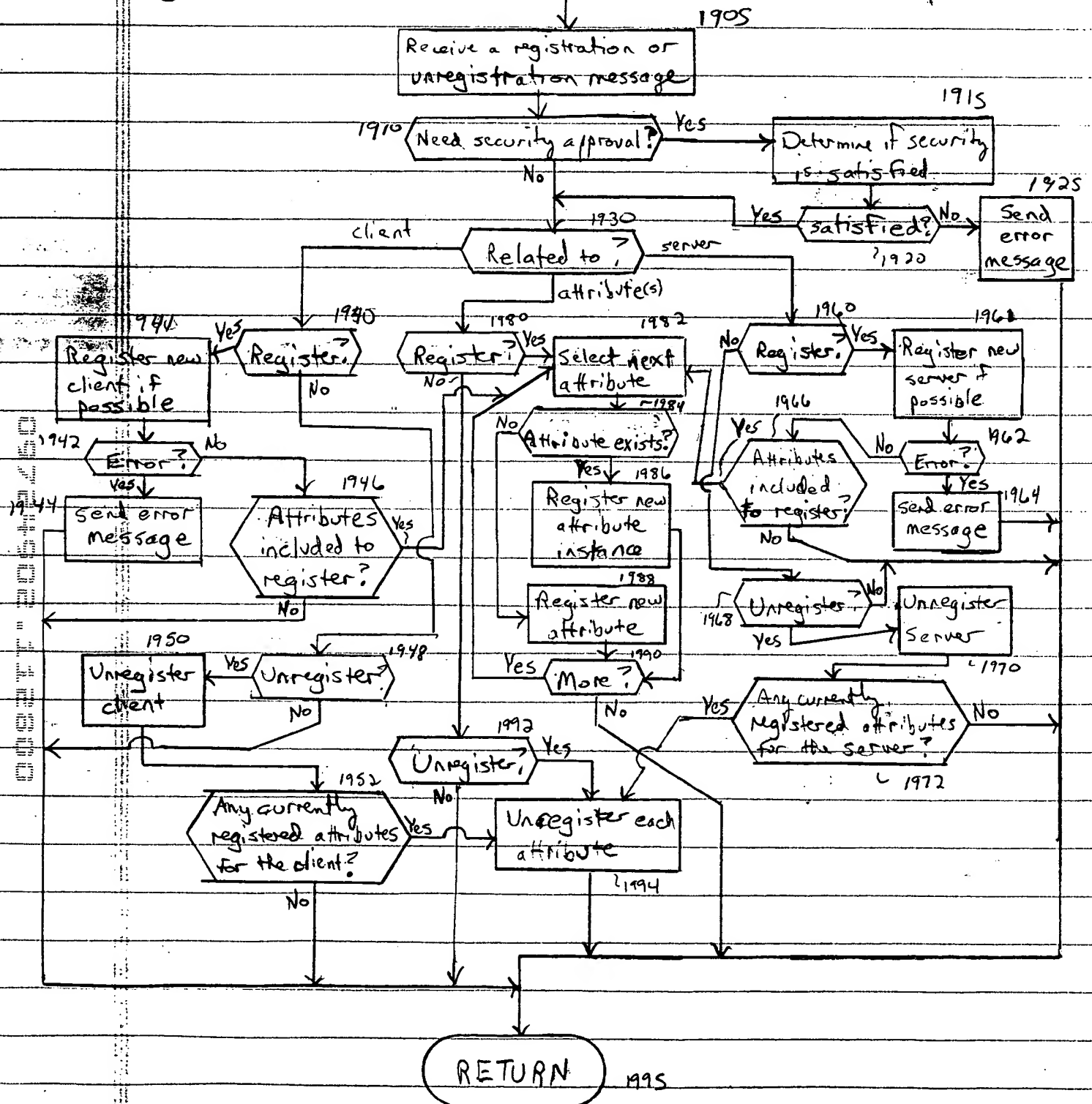
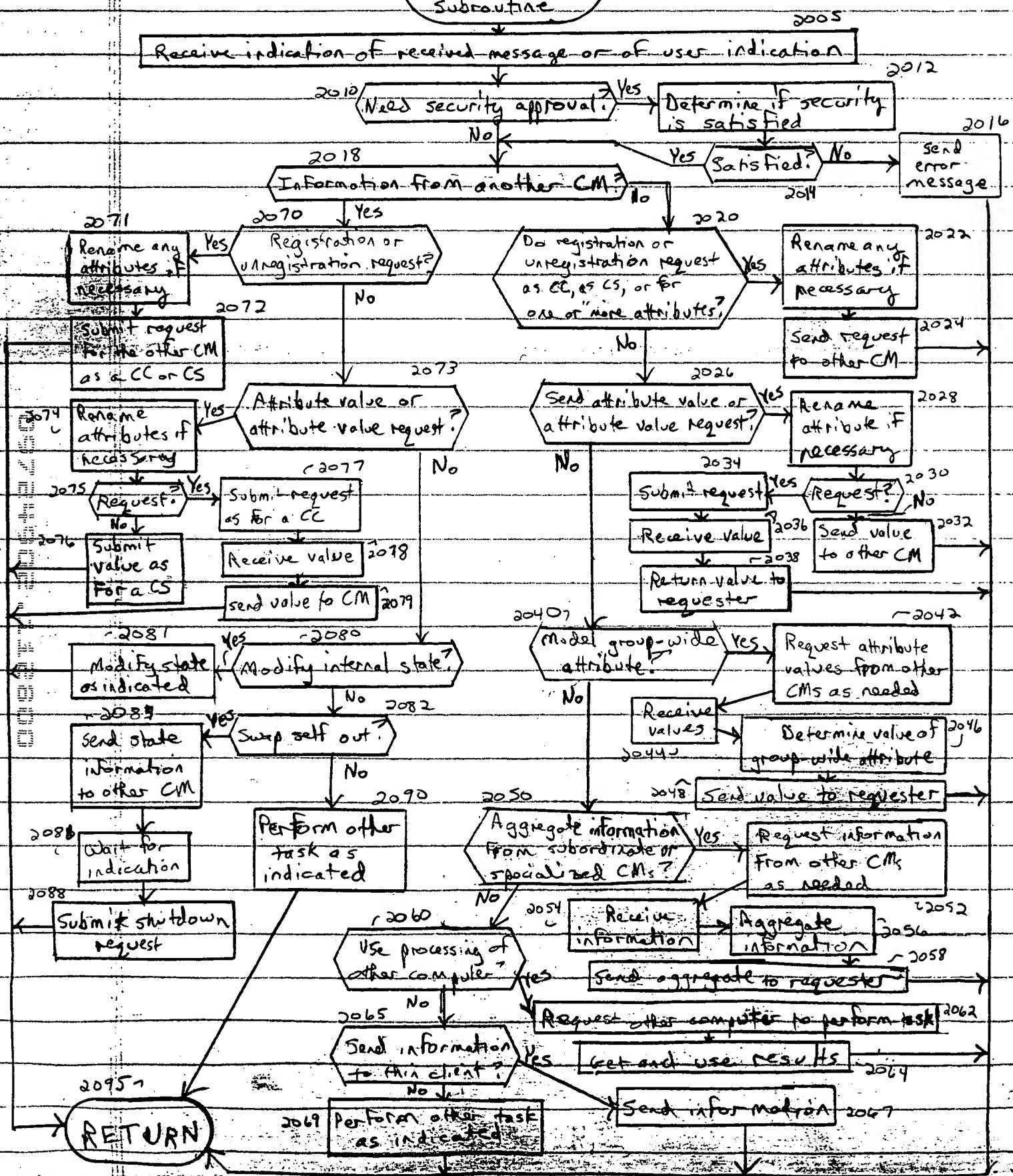


Fig. 20

Process Distributed CM Message Subroutine



1745
Process Attribute Value
On Value Request Message
Subroutine

Fig. 21

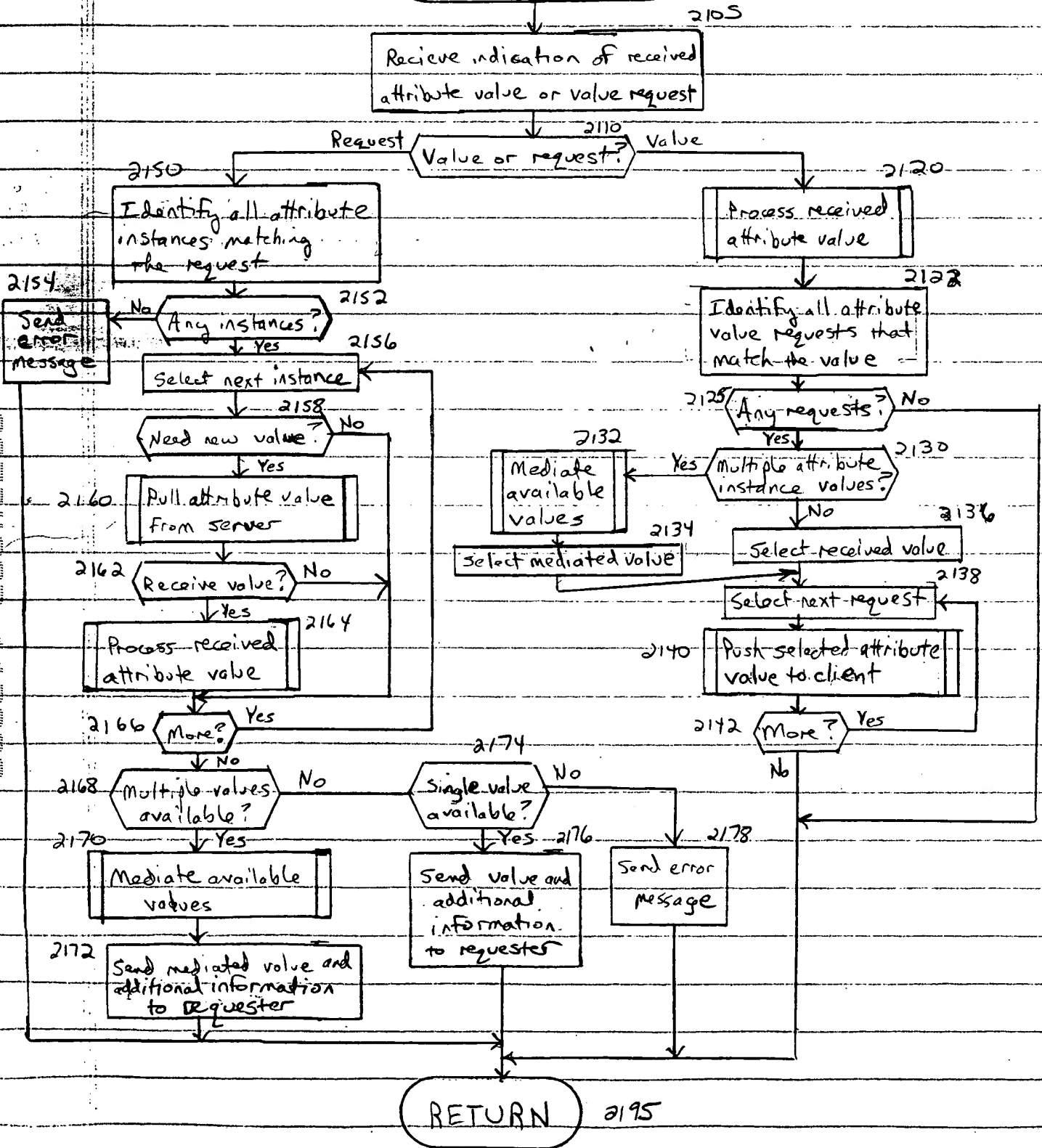
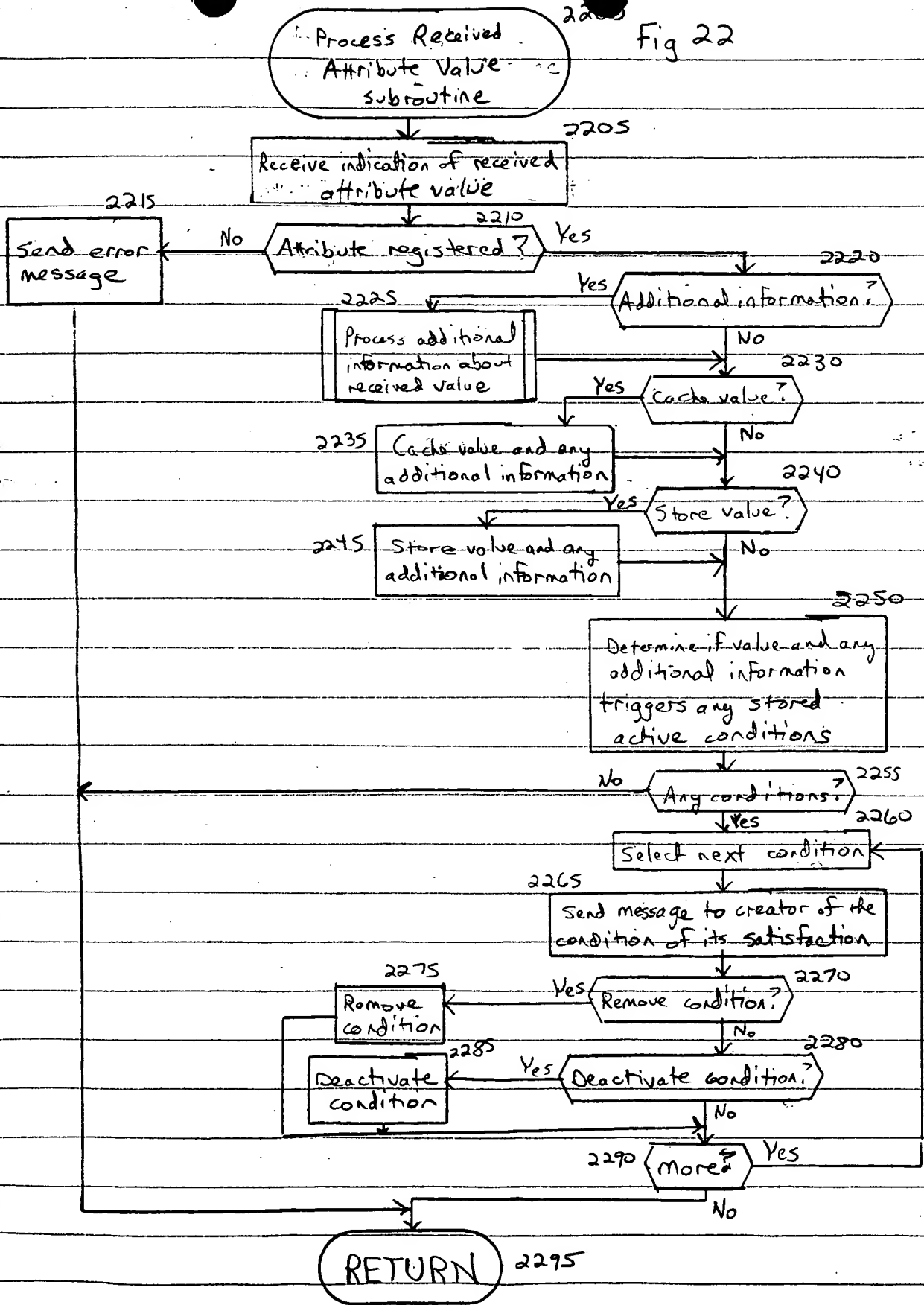


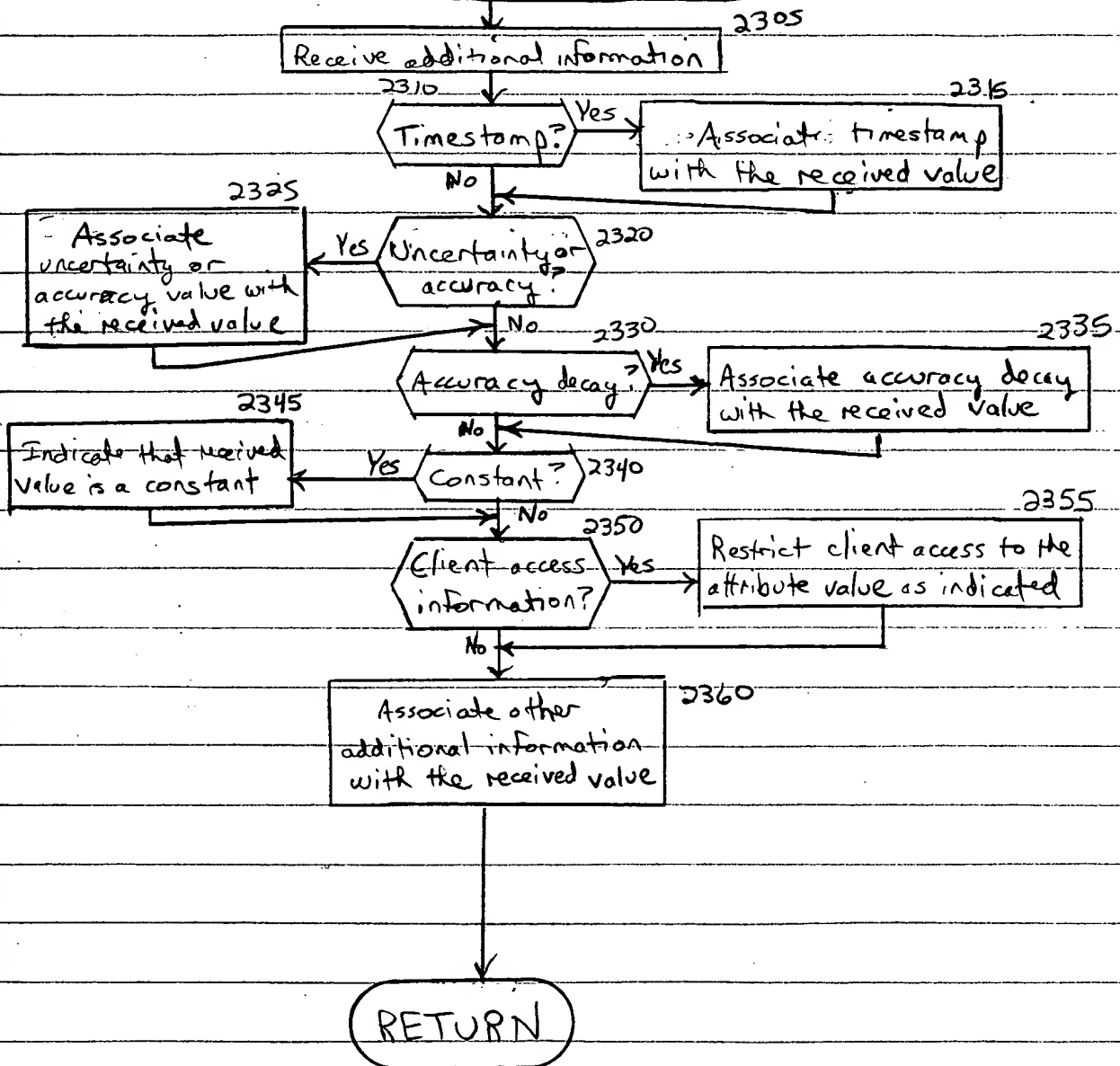
Fig 22



225

Process Additional Information
About Received Value
Subroutine

Fig. 23



2400

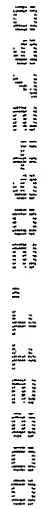


Fig. 25

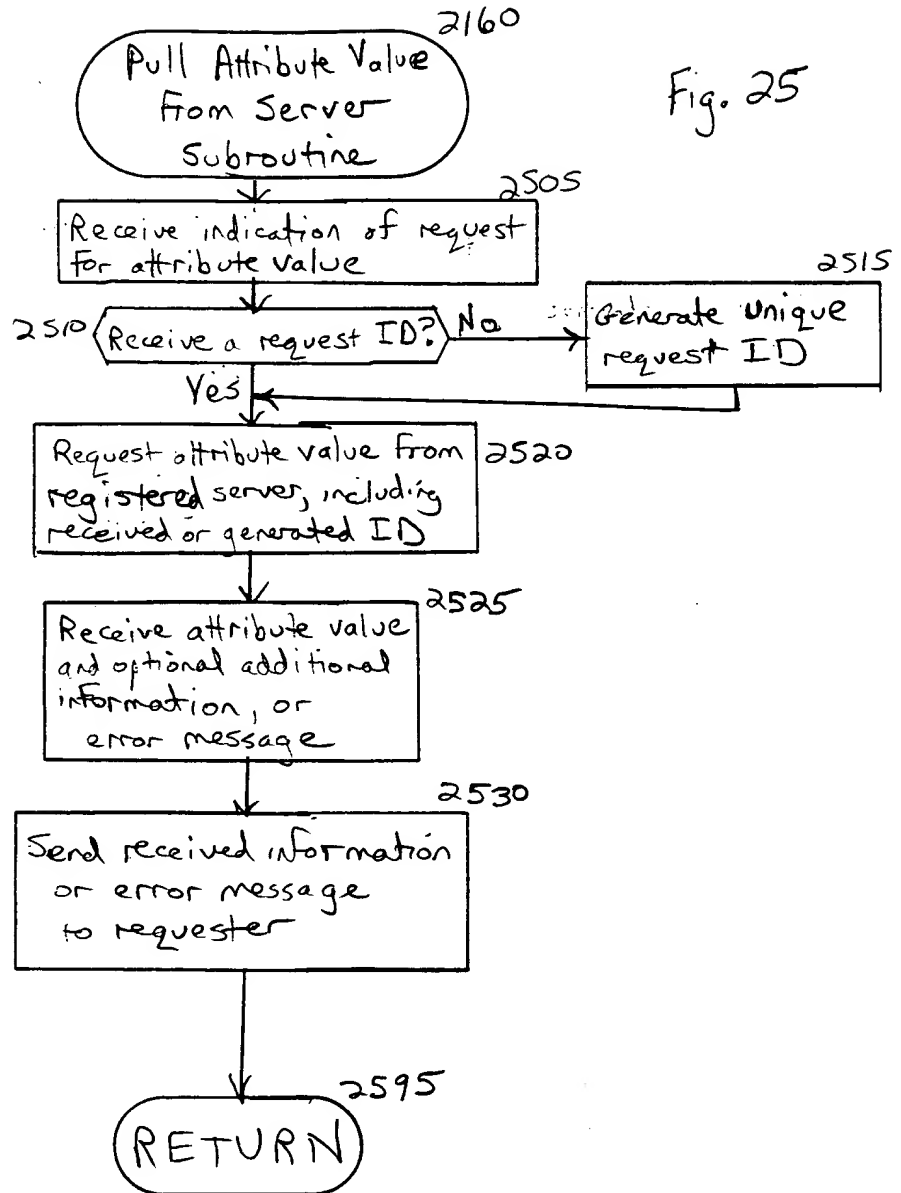
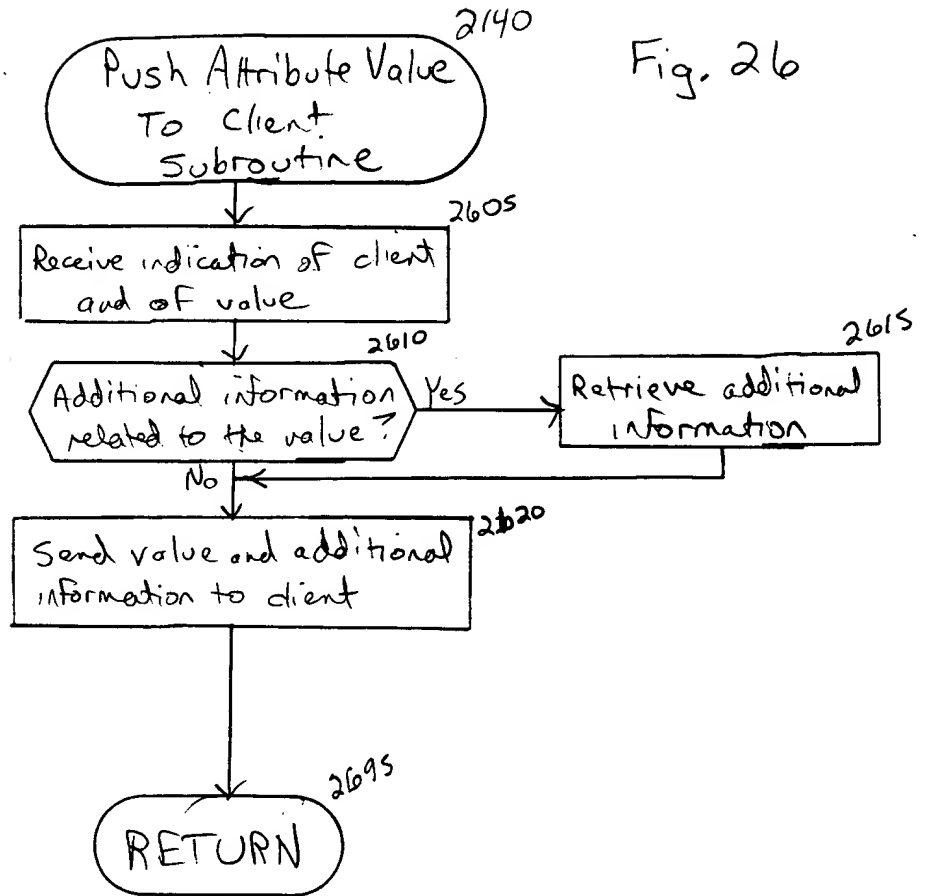
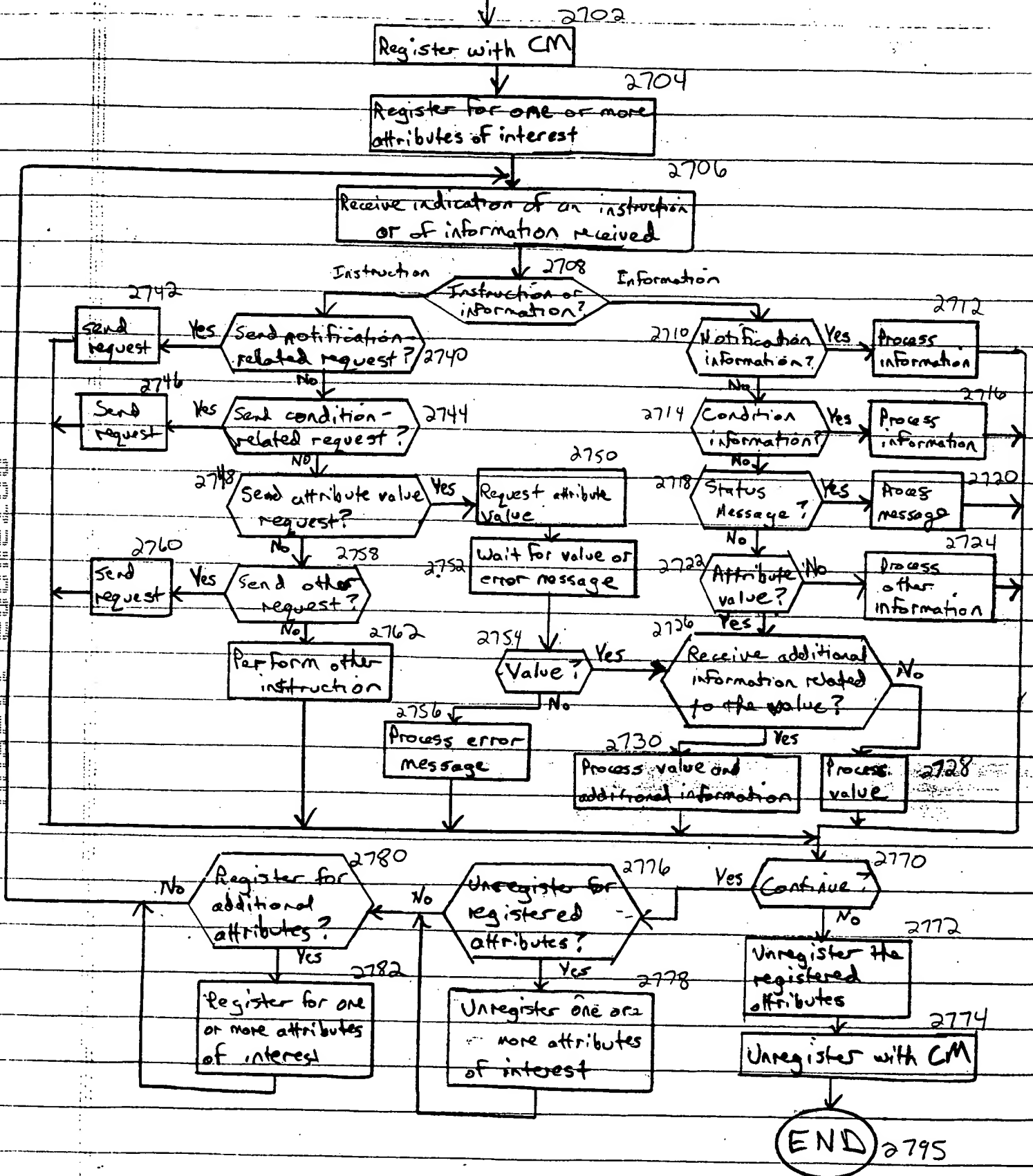


Fig. 26



Context Client Routine 2700

Fig. 27



Context Server Routine 2800

Fig. 28

